

Title (en)  
PILOT SHIFTING

Title (de)  
PILOTENVERSCHIEBUNG

Title (fr)  
DECALAGE DE PILOTES

Publication  
**EP 2715994 B1 20160706 (EN)**

Application  
**EP 11724159 A 20110530**

Priority  
EP 2011058833 W 20110530

Abstract (en)  
[origin: WO2012163399A1] Some example embodiments presented herein may be directed towards a method in a Base Station, which may be comprised in a Radio Network, for transmitting a combined wireless communication signal. The combined wireless communication signal may comprise a primary and a secondary signal component. The method may comprise transmitting the secondary signal component to be received by an user equipment, the secondary signal component may comprise secondary pilot resources that may be dynamically shifted, where the dynamic shifting may be based on a current estimation procedure. Some example embodiments presented herein may be directed towards a method in an user equipment, which may be comprised in a Radio Network, for estimating the combined communication channel. The method may comprise receiving from the Base Station the dynamically shifted combined wireless communication signal comprising primary and secondary signal components. The method may also comprise estimating the primary channel when the current estimation procedure is a primary channel estimation procedure, and estimating the secondary channel when the current estimation procedure is a secondary channel estimation procedure.

IPC 8 full level  
**H04L 5/00** (2006.01); **H04L 25/02** (2006.01)

CPC (source: EP US)  
**H04L 5/0032** (2013.01 - EP US); **H04L 5/0048** (2013.01 - EP US); **H04L 5/0062** (2013.01 - EP US); **H04L 25/0224** (2013.01 - EP US)

Citation (examination)  
JOACHIM SACHS ET AL: "Cognitive Cellular Systems within the TV Spectrum", NEW FRONTIERS IN DYNAMIC SPECTRUM, 2010 IEEE SYMPOSIUM ON, IEEE, PISCATAWAY, NJ, USA, 6 April 2010 (2010-04-06), pages 1 - 12, XP031664868, ISBN: 978-1-4244-5189-0

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012163399 A1 20121206**; EP 2715994 A1 20140409; EP 2715994 B1 20160706; US 2012307729 A1 20121206; US 8995341 B2 20150331

DOCDB simple family (application)  
**EP 2011058833 W 20110530**; EP 11724159 A 20110530; US 201113510438 A 20110530